What is claimed is:

1. A process for forming a continuous, unsupported, multizone phase inversion microporous membrane having at least two zones, comprising of the acts of:

operatively positioning at least one dope applying apparatus having at least two polymer dope feed slots relative to a continuously moving coating surface;

cooperatively applying polymer dopes from each of the dope feed slots onto the continuously moving coating surface so as to create a multiple layer polymer dope coating on the coating surface; and

subjecting the multiple dope layer coating to contact with a phase inversion producing environment so as to form a wet multizone phase inversion microporous membrane.

2. The process of claim 1 wherein the polymer dope comprises:

nylon.

3. The process of claim 1 wherein the polymer dope comprises:

polyvinylidene fluoride.

4. The process of claim 1 wherein the polymer dope comprises:

polyether sulfone.

5. The process of claim 1 further comprising the acts of:

washing and drying the membrane.

6. The process of claim 1 wherein the multizone membrane has a type II configuration.

7. The process of claim 1 wherein the multizone membrane has a type III configuration

8. The process of claim 1 wherein the multizone membrane has a type IV configuration

9. The process of claim 1 wherein the multizone membrane has a type V configuration

10. The process of claim 1 wherein the multizone membrane has a type VI configuration

11. The process of claim 1 wherein the multizone membrane has a type VII configuration

12. The process of claim 1 wherein the multizone membrane has a type VIII configuration

13. The process of claim 1 wherein the multizone membrane has a type IX configuration

14. The process of claim 1 wherein the multizone membrane has a type I configuration.

15. A process for forming a continuous, unsupported, multizone phase inversion microporous membrane having at least two zones, comprising of the acts of:

operatively positioning at least two dope applying apparatus, each having at least one polymer dope feed slot, relative to a coating surface;

applying polymer dope from each of the dope applying apparatus onto the coating surface so as to create a multiple layer polymer dope coating on the coating surface; and

subjecting the multiple layer polymer dope coating on the coating surface to contact with a phase inversion producing environment so as to form a wet multizone phase inversion microporous membrane.

16. The process of claim 15 wherein the polymer dope comprises:

nylon.

17. The process of claim 15 wherein the polymer dope comprises:

polyvinylidene fluoride.

18. The process of claim 15 wherein the polymer dope comprises:

polyether sulfone.

19. The process of claim 15 further comprising the acts of:

washing and drying the membrane.

20. The process of claim 15 wherein the multizone membrane has a type I configuration.

21. The process of claim 15 wherein the multizone membrane has a type II configuration.

22. The process of claim 15 wherein the multizone membrane has a type III configuration.

23. The process of claim 15 wherein the multizone membrane has a type IV configuration.

24. The process of claim 15 wherein the multizone membrane has a type V configuration.

25. The process of claim 15 wherein the multizone membrane has a type VI configuration.

26. The process of claim 15 wherein the multizone membrane has a type VII configuration.

27. The process of claim 15 wherein the multizone membrane has a type VIII configuration.

28. The process of claim 15 wherein the multizone membrane has a type IX configuration.

29. A multizone, unsupported, membrane comprising:

a first zone having a first pore size; and

at least a second zone having a second pore size, the first and second zones being operatively connected such that the multizone membrane is continuous and does not include any support material.

30. The multizone membrane of claim 29 wherein the first zone is formed from a first polymer dope for producing one pore size and the at least a second zone is formed from at least a second polymer dope for producing at least one different pore size.

31. The multizone membrane of claim 29 wherein the polymer dope comprises:

nylon.

32. The multizone membrane of claim 29 wherein the polymer dope comprises:

polyvinylidene fluoride.

33. The multizone membrane of claim 29 wherein the polymer dope comprises:

polyether sulfone.

34. The multizone membrane of claim 29 wherein the multizone membrane has a type I configuration.

35. The multizone membrane of claim 29 wherein the multizone membrane has a type II configuration.

36. The multizone membrane of claim 29 wherein the multizone membrane has a type III configuration.

37. The multizone membrane of claim 29 wherein the multizone membrane has a type IV configuration.

38. The multizone membrane of claim 29 wherein the multizone membrane has a type V configuration.

39. The multizone membrane of claim 29 wherein the multizone membrane has a type VI configuration.

40. The multizone membrane of claim 29 wherein the multizone membrane has a type VII configuration.

41. The multizone membrane of claim 29 wherein the multizone membrane has a type VIII configuration.

42. The multizone membrane of claim 29 wherein the multizone membrane has a type IX configuration.